

Fredlund, Ernst.
THE MEASURING RANGE OF KNUDSEN'S MANOMETER. [1963] [14]p. 13 refs.
Order from SLA \$1.60

63-14668

Trans. of Annalen der Physik (Germany) 1932, ser. 5,
v. 13, no. 7, p. 802-810.

DESCRIPTORS: *Vacuum apparatus, *Pressure gages,
*Manometers, Gases, Pressure, Measurement.

Measurements with a Knudsen manometer of a new type have shown that it is possible to obtain a linear relation between the manometer deflection and the gas pressure, until the mean free path is only approximately 10-12 times greater than the plate distance. Depending on the type of gas, the manometer shows a deviation which is incompatible with the simple theory, although this deviation can be easily explained by means of the theory of the accommodation coefficient. (Author)

63-14668

1. Title: Knudsen
manometers
1. Fredlund, E.

A542721

(Engineering, TT, v. 10,
no. 5)

Office of Technical Services

63-14687

Fredlund, Ernst.
STUDY OF KNUDSEN'S MANOMETER. [1963] [34]p.
11 refs.

Order from SLA \$3.60

63-14687

1. Title: Knudsen manometers
1. Fredlund, E.

Trans. of Annalen der Physik (Germany) 1932, ser. 5,
v. 14, no. 6, p. 617-643.

DESCRIPTORS: *Vacuum apparatus, *Pressure gages,
*Manometers, Gases, Pressure, Measurement.

A242720

Office of Technical Services

(Engineering, TT, v. 10, no. 5)

DC-12731

27 Oct 66

Universities or CIA Branches, by G. Freeman,
RUSSIAN, np, Pravda, 3 Oct 1966.
Special

Oct 66

FREEDMAN, J. B.

About the Mechanism of Failure of Metals.

Russian, Zhur Tekh Fiz, Vol XI, 1941.

Index Aero May 1950

49/1666

P 21575T

A 2701

Metal-Cutting Machine Tools, by Henry G. Freeman.

GERMAN, bk., Spanende Werkzeug-Maschinen, 1963.

HB

Sci-M/M

Aug 63

345, 304

Tuberculin Skin Reactions Without Participation of
Tubercle Bacteria and Mycobacterial Vital Substances,
by E. Freerksen, M. Rosenfeld, 2 pp.

ONKOW, per, Naturwissenschaften, Vol XLVIII, No 5,
1961, pp 135, 136.

MEM 7-24-61

Sci - Med
Sep 61

Flaskback Arrestors of Porous Sintered Metals -
A New Safety Appliance for Explosive Gases,
by F. Frehn, W. Ertop, C. Stempel.

GERMAN, per, Schweissen u Schneiden, Vol VII,
No 5, 1955, pp 198-200.

T.I.L. T.4535

35,710

Sci - Minerals/Metals, Engineering, (filed)

Jun 1956

RAPATZ, F.
FREISER, J.

Stahl und Eisen, vol. 69, 1949, pp. 605-607; 8 figs.
2 tables, 2300 words.

Influence of Special Nitrides upon Properties of High
Speed Steels with Reduced Tungsten Content.

Brutcher Trans., Order No. 2286, \$3.90

11-10-18

Israel Between the Fronts, by Bruno Frei,
75 pp. FOR OFFICIAL USE ONLY
GERMAN, bk, Israel Zwischen den Fronten, 1965,

NY-13404

OCT 66

308,426

(DC-3401)

The Soviet Nationalities Policy and West German
Revanchism -- An Austrian Communist View, by
Bruno Frei, 4 pp.

GERMAN, ap, Volksstimme, No 241, 17 Oct 1961,
p 6.

JPRS 12719

WISur - Austria
Pol
Mar 62

186, 443

Leucocyte Phagocytosis, by J. Frei.
FEDERAL. RES. ANN. (FEDERAL. RES. ANN.) Vol 22,
No 3/4, 1964, pp 205-225.
10-15-68

J. FREI

Oct-8 and 1.
Jan 69

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Determination of Phosphoryl Oxidation in the
Hepatic Cell Using P^{32} , by J. Frei, et al.

GERMAN, paper, P/922, Proceedings of International
Conference on Peaceful Uses of Atomic Energy Held
at Geneva 8-20 Aug 1955, Vol XII.

Internatl Conf -- UN

Sci - Nuclear Physics

CIA 1-669.9.162

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Methods of Botanical Studies, by T. Frei.
RUSSIAN, Botanicheski Zhurnal, Vol 48, No2,
1963, pp 235-239.
CSIRO/No. 7193

T. Frei

Sci -
Jul 67

334,261

Rational Schemes for Cold Drawing and Rolling
of Tubes, by M. A. Freiberg, 3 pp.

RUSSIAN, per, Metallurg, No 9, 1959,
pp 33, 34.

Acta Metallurgica

Sci

Apr 61

144, 449

Variable-Diameter Tube Drawing, by M. A. Freiberg,
p. 21.

RUSSIAN, per, Metallurg, No 2, 1957, pp. 18-20.

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Sci - Minerals/Metals
Mar 58

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Influence of Various Additives on the Properties
of Titanium Capacitor Ceramics, by E. Zh. Freidenfel'd,
A. A. Apsits, 4 pp.

RUSSIAN, per, Zhur Prih Khim, Vol XXX, No 9, 1957,
pp 1390-1393.

Consultants Bureau

Sci - Chem

Dec 58

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Lightweight Design Floating Feeder Heads, by
A. F. Zakharov, E. Z. Freidenzon, E. A. Tarakanov,
1 pp.

RUSSIAN, per, Stal, No 12, 1959, pp 1082-1084.

The Iron and Steel Institute

119, 256

Sci-Tech

Jun 60

Effect of Radioactive Radiation on the Physical
and Mechanical Properties of Wood, by A. S.
Freidman.

RUSSIAN, per, Lesnaya Prom, Vol VII, No 9,
1958, pp 13-15.

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(1022)

Sci - Phys

Aug 60

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MODIFICATION OF THE PROPERTIES OF TIMBER BY
IONISING RADIATION, by A. S. FREIDIN, 3 PP.

RUSSIAN, per, Derevoobrabat, ~~raznoshchitye~~ ~~raznoshchitye~~
No 1, 1960, pp 15-17.

DSIR, TDA
~~not being translated since, 1961~~

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169,980

Room

9 Oct 61

A Study of the Kinetics of Oxidation of Liquid Paraffins
in the Presence of a K-Mn Catalyst, by B. G. ~~Freidin~~,
5 pp.

RUSSIAN per, Zhur Prik Khim, Vol XXXII, No 8, 1954,
pp 1349-1954.

CB

Sci
May 62

195,236

Isotop-Enzyme Catalytic Oxidation of 2-
Deoxy-Deoxyribose, by V. E. Zaydman, et al.,
B. G. Fridman.
RUSSIAN, per, Nezavisimaya Russkaya
to Metallochemicheskaya i Biokhimiya
Prilozheniya, 1965, no 435-438.
RZA TT-64-10410

B. G. Fridman

Sci-Chem
Jul 66

305,561

61-23241

Freidin, B. G. and Tsyskovskii, V. K.
THE APPLICATION OF VARIOUS CATALYSTS FOR
THE OXIDATION OF PARAFFIN (Primeneniye
Razlichnykh Katalizatorov pri Okslenii Parafina).
[1961] 110p. 11 refs. [DSIR L.L.U] M. 2997.
Order from OTS or SLA \$1.10

61-23241

Trans. of Khim[ia] i Tekhn[ologiya] Topliv i Masel
(USSR) 1959 [v. 4] no. 12, p. 25-29.

DESCRIPTORS: *Catalysts, Oxidation, *Hydrocarbons,
Potassium compounds, Manganese compounds, Per-
manganates, Reaction kinetics.

The presence of potassium compounds stabilizes the
valency state of manganese in the induction period of
oxidation of hydrocarbons in the liquid phase which
leads to an increase in the duration of the induction
period but accelerates the formation of acids in the ad-
vanced stage of the reaction. Under experimental con-
ditions the influence of potassium permanganate was
(Chemistry--Physical, TT, v. 6, no. 3) (over)

I. Freidin, B. G.
II. Tsyskovskii, V. K.
III. DSIR L.L.U M. 2997

Office of Technical Services

61-23241

A Study of the Kinetics of Oxidation of Liquid
Paraffins in the Presence of a K-Mn Catalyst
by B. G. Freidin, 5 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXXII, No 6,
1959, pp 1049-1054.

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Sci

Aug 60

123,677

Separation of Synthetic Acids by the
Extractive Crystallisation Method With
the Aid of Urea, by B. G. Freidin, K. D.
Tammik, 6 pp.

RUSSIAN, no per, Zhur Prik Khim SSSR, Vol
XXIX, No 6, Jun 1956, pp 935-941. *0 Abstracted*

Consultants Bureau

47,173

Sci - Chemistry
May 57

Solubilization in the Isolation of Fatty Acids
from Oxidized Paraffin, by B. G. Freidin, 6 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XXVIII, No 12,
Dec 1955, pp 1322-1326. CIA C 43311

Consultants Bureau

Sci - Chemistry

37,058

Aug 1956

Some Characteristics of Hydrocarbon Oxidation in
the Liquid Phase, Initiated by Metallic Salts, by
B.G. Freidin, 5 pp.

Pink
RUSSIAN, per, Zhur ~~2001~~ ⁷⁰⁰ Khim, Vol ~~2001~~ ⁵, No ~~2~~ ⁷,
1957, pp 768-774.

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Sci - Chem
Aug 58

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Kinetics of the Oxidative Conversion of Hydrocarbons
in the Liquid Phase, by B. G. Freidin, 6 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXI, No 6, 1958,
pp 881-886.

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Sci - Chem

Jun 59

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Effect of Adding Boric Acid Upon Oxidation of
Hydrocarbons in the Liquid Phase, by B. G.
Freidin, 3 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XXVII, No 12,
Dec 1954, pp 1327-1329. CIA C 42155.

Consultants Bureau

Sci - Chemistry

35-223

Jun 1956/Dex

The Sequence of Hydrogenation of the Double Bonds in
Cyclopentadiene Over Pd- and Pt-Black, by L. Kh.
Freidin, B. D. Polkovnikov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. CXII, No 1, 1957,
pp 83-.

Consultants Bureau

Sci - Chemistry
Jul 58

66,750

47
Electrical Conductivity of Dry Lacquer/Paint
Films and the Potentials Generated on Films
Coated in an Electric Field, by M. M. Freidin.
USSR J, per, Lakhsyachy Materialy i Ikh
Primeneniya, No 6, 1964, pp 26-31.
NYC-69-16887-07D

Sci-Chem
Feb 70

402,8931

Freidlin, M. M.
THE EFFECT OF THE HIGH-VOLTAGE CURRENT
SUPPLY SOURCES ON THE ELECTROSTATIC
SPRAYING OF PAINTS. May 63, 1100 words.
Order from TTIS \$12.00 TTIS NS 69

Trans. of Lakokrasochnye Materialy i Bih Primeneniye
(USSR) 1962, no. 1, p. 54-56.

DESCRIPTORS: *Electric potential, Electric currents,
*Electric power production, *Sprays, Electrostatics,
Paints.

(Materials--Paints, TT, v. 10, no. 2)

63-17379

- I. Title: Electrostatic spraying
- I. Freidlin, M. M.
- II. TTIS-NS-69
- III. Translation and Technical Information Services, (Gt. Brit.)

1259735

Office of Technical Services

~~Synthesis~~ Synthesis of Unsymmetrical Sulfides Contain-
ing Functional Groups, by R. G. Petrova, R. Kh. Freidina,
5 pp.

RUSSIAN, per. Iz Ak Nauk SSR, Otdel Khim Nauk, No 1,
1962, pp 59-64.

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214,578

Aug 62

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Scribner, G. M. Friedman.

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U. S. Atomic Energy Authority
Hickley, T.M.-Ref-See-168(V)

Sci - Chem
Aug 62
1496 T1

206,111

Separation of Terephthalic and Isophthalic Acids by
Extraction with Hot Methanol

By G. N. Freidlin and V. N. Davydov pp. 5

RUSSIAN, per, Zhur Prik Khim, Vol XXV, No 11, 1962,
pp. 2520 - 2525

CB

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240-935

Oct 63

Investigation of the Vapor-Phase Hydrolysis of
Chlorobenzene in Presence of a Phosphate Catalyst,
I. Kh. Freidlin, A.A. Balandin, G.A. Fridman, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 11, 1957, pp 1328-1332

Consultants Bureau

Sci - Chem

May 59

86,997

Kinetics of the Catalytic Reduction of Organic Peroxides and Hydroperoxides, Communication 1. Hydrogenation of *o,o*-Dimethylbenzyl Hydroperoxide, *o,o*-Dimethylbenzyl Ethyl Peroxide, and 1,2,3,4-Tetrahydro-1 Naphthyl Hydroperoxide, by A.A. Balandin, I. Kh. Freidlin, N.V. Nikiforova, 8 pp.

RUSSIAN, per, Iz Ak Nauk, SSSR, Otdel Khim Nauk, No 4, 1957, pp 443-450.

Consultants Bureau

Sci - Chem
May 59

87,207

The Change in Phagocytic Activity and in Certain
Cytochemical Reactions of the Leukocytes of
Guinea-Pig Peritoneal Exudate During Immunization,
by I. S. Freidlin, 3 pp.

RUSSIAN, per, Byul Eksp. Biol. i Medit, Vol LII,
No 9, 1961, pp 80-82.

CB

Sci

202,780

1961

Preparation of p-Xylylenediamine by the Catalytic
Reduction of Terephthalonitrile, by K. L. Friedlin,
A. A. Balandin, T. Bladkova, 5 pp.

RUSSIAN, Dok Ak Nauk SSSR, Vol CXIX, pp 880-881,
1957.

SLA R-1650

Sci - Chem
Aug 58

70,524

Study of the Stepwise Dehydration of 1,6-
Hexanediol on Tricalcium Phosphate Catalyst,
by L. K. Freidlin, V. Z. Sharf, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim
Nauk, No 2, 1961, pp 373-375.

CB

Sci

1961, 1961

Jun 62

Effect of Very High Pressures on the Catalytic Activity of Aluminum Oxide, by L. F. Vereshchagin, L. K. Freidlin, A. M. Rubinshtein and I. U. Numanov, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 6, 1951, pp 809-818.

Assoc Tech Serv
RJ-129

Sci

Aug 58

72,560

41
Zinc Catalysis of Hydrogenation Reactions, by
L. Kh. Freidlin.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol 131, No 5,
1960, pp 1109-1112.

AMS 24-5179

L. Kh. FREIDLIN

Sci-Comm
July 69

385,745

Freidlin, L. Kh. and Lebedeva, A. I.
THE INTERACTION OF SODAMIDE WITH THE
SALTS OF ORGANIC ACIDS. [1964] 13p 31refs
Order from OTS, SLA, or ETC \$1.60 TT-64-14699

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1939, v. 9,
p. 996-1006.

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-14699

I. Freidlin, L. Kh.
II. Lebedeva, A. I.

Office of Technical Services

Dehydration of α -Methylcyclopropanemethanol in
Presence of Acidic Catalysts

By L. Kh. Ereidlin, V. Z. Sharf (p. c)

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk
No 10 1962, pp. 1843-1849

CB

Sci.

Aug 63

343,043

Mechanism of the Formation of Secondary and Tertiary Amines in the Course of the Catalytic Hydrogenation of Adiponitrile to 1,6-Hexanediamine, by L. Kh. Freidlin, T. A. Sladkova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, 1962, pp 336-341.

Consultants Bureau

Sci
Dec 62

A Study of the Behavior of Borophosphate Catalysts
in the Dehydration Reaction of a Mixture of
Pyrocatechol and ~~METHANOL~~ Methanol, by L. M. Freidlin,
V. Z. Shari, et al, 5 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol II, No 2,
1961, pp 228-234.

CB

Sci
Jun 62

200,109

Study of the Effect of the Structure of Unsaturated
Organosilicon Compounds on Their Hydrogenation
Rates, by L. Kh. Freidlin, I. F. Zhukova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 7, 1961, pp 1269-1274.

CB

Sci

Jun 62

200,172

Alkylation of Normal Paraffins with Olefins
at High Temperatures and Pressures by,
L.Kh. Freidlin, N.M. Razarova, A.I. Palin, 3pp.

RUSSIAN, per, Iz Nk Nauk SSSR, Otdel Khim Nauk,
No 4, 1961, pp. 714-721.

CB

Sci
April 62

211,448

The Deactivation of Raney Nickel Catalyst by Water Vapor and the Increase in Its Stability by Means of Promoters, by L. Kh. Freidlin, I. F. ~~Zhuk~~ Zhukova, 8 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol II, No 1, 1961, pp 112-117.

CB

Sci
Jun 62

200,243

Investigation of on the Activity and Selectivity
of Cobalt Catalysts in Hydrogenation, by N. V.
Baranova, L. Kh. Freidlin, 4 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol II, No 3,
1961, pp 462-466.

CB

201,768

Sci

Jan 62

Catalytic Reduction of Adipic Acid Dinitrile to
ε-Aminocapronitrile, by L. Kh. Freidlin, 5 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XXXII, No 7,
1959, pp 1600-1604.

CB

Sci

Aug 60

122,535

Selective Reduction of Adiponitrile to ϵ -Aminocapro-
nitrile on a Nickel Boride Catalyst. I. Ya.
~~Khachatryan~~, T. A. Sladkova, 5 pp.
RUSSIAN, per Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, 1961, pp 151-156.
CB

198,022

Sci
Apr 62

Catalytic Alkylation of Isobutane with Ethylene Under
Pressure at High Temperatures, by L. Kh. Freidlin, A. A.
Balandin, pp 4

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, 1960, pp 409-412.

Sci
May 62

GB

195,349

Selective Deactivation of a Phosphate Catalyst by
Caustic Alkali in the Dehydration of Ethanol, by
L. Kh. Freidlin, V. Z. Sharf, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No
1959, pp 2042-2043.

CB

Sci -
May 61

153, 098

Reactivity of Halogenobenzenes in Catalytic
Hydrolysis in the Vapor Phase, by L. Kh. Freidlin,
A. A. Malandin, G. A. Fridman.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
1945, pp 655-663.

OTS 61-18838

Sci

Mar 62

189,552

~~Index~~ Vol VII, No 2

Kinetics of the Dehydration of Alcohols Over
Tricalcium Diphosphate, and the Deactivation of
the latter by Organic Bases, by L. Kh. Freidlin,
V. Z. Sharf, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1960, pp 1861-1867.

CB

172, 757

Sci

Oct 61

Mechanism of the Formation of Secondary
Amines by Catalytic Hydrogenation of
Adiponitrile, by L.Kh. Freidlin, T.A.
Bladkova.

RUSSIAN, per Vysokomolek. Soedin. 1962,

PP 229-232

GB 30 ~~LT~~ LT 2451

L. Kh. Freidlin

Sci -

Aug 67

338-336

TT-64-12057

Freidlin, L. Kh. and Gorshkov, V. I.
ZINC CATALYSIS OF HYDROGENATION REACTIONS.
[1963] 6p
Order from ATS \$8.25

ATS-87Q72R

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1960,
v. 131, no. 5, p. 1109-1112.

DESCRIPTORS: *Zinc, *Catalysis, *Hydrogenation,
Chemical reactions.

I. Freidlin, L. Kh.
II. Gorshkov, V. I.
III. ATS-87Q72R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

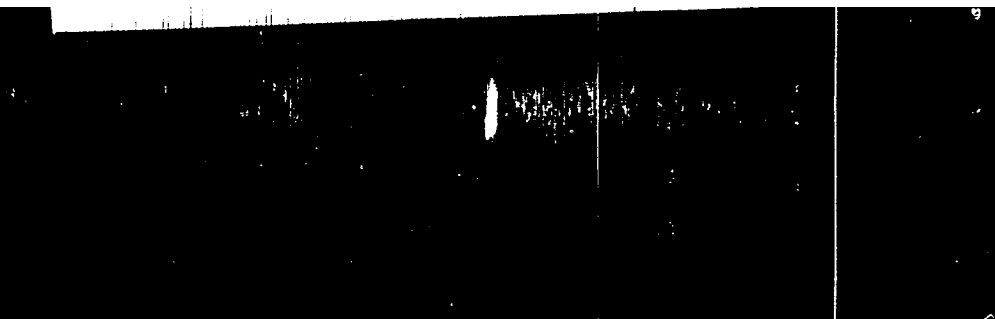
87Q

(Chemistry--Physical, TT, v. 11, no. 3)

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63-18674

Freidlin, L. Kh. and Fridman, G. A.
CATALYTIC [SUBSTITUTION] OF HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES. IV. VAPOR-
PHASE HYDROLYSIS OF o- AND p-CHLOROPHENOLS
AND o- AND p-DICHLOROBENZENES. [29 Oct 52]

[19p] 14refs

Order from OTS or SLA \$1. 60

63-18674

Trans. of Akademiya Nauk SSSR, Otdelenie Khimicheskikh Nauk. Izvestiya, 1949, no. 3, p. 317-323.

DESCRIPTORS: *Benzenes, *Chlorides, *Phenols, Hydroxyl radicals, Hydrolysis, Catalysis, Substitution reactions, Halogens, Insecticides.

The possibility of vapor-phase hydrolysis of o- and p-chlorophenols and o- and p-dichlorobenzenes was investigated and the influence of ring substituents is demonstrated. The catalytic character of the process is (Chemistry--Organic, TT, v. 10, no. 11) (over)

1. Title: Dichlorobenzenes
2. Title: Chlorophenols
- I. Freidlin, L. Kh.
- II. Fridman, G. A.
- III. Title: Vapor . . .
- IV. Trans-MT-52-50

Office of Technical Services

63-18675

Freidlin, L. Kh., Neimark, L. E., Fridman, G. A.,
Shainfain, R. Yu., and Khataev, F. I.

RELATION BETWEEN CHARACTER OF POROSITY
OF SILICA GEL AND ITS CATALYTIC PROPERTIES.
[1963] 21p 7 refs

Order from OTS or SLA \$2.60

63-18675

Trans. of Akademiya Nauk SSSR. Otdel'nye Khimiches-
kikh Nauk. Izvestiya, 1960, no. 5, p. 521-530.

DESCRIPTORS: *Silicon compounds, Dioxides, *Gels,
Porosity, Catalysis, Chemical reactions, Benzenes,
Chlorides.

The interrelations among the porous structure of
silica gel, its catalytic activity, its specificity, and
its thermal stability in the reaction of vapor-phase
hydrolysis of chlorobenzene is investigated. (Author)

(Chemistry--Organic, TT, v. 10, no. 11)

I. Freidlin, L. Kh.
II. Neimark, L. E.
III. Fridman, G. A.
IV. Shainfain, R. Yu.
V. Khataev, F. I.

Office of Technical Services

63-18676

Freidlin, L. Kh., Neimark, I. E., Fridman, G. A.,
and Sheinfain, R. Yu.

PROMOTING OF SILICA GELS OF DIFFERENT

POROSITIES, [1963] 18p 6refs

Order from OTS or SLA \$1.60

63-18676

I. Freidlin, L. Kh.

II. Neimark, I. E.

III. Fridman, G. A.

IV. Sheinfain, R. Yu.

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1951, no. 1, p. 86-94.

DESCRIPTORS: *Silicon compounds, Dioxides, *Gels, Porosity, Copper, Catalysis, Chemical reactions, Benzenes, Chlorides.

The influence of copper upon the catalytic properties of silica gels of various porosities was investigated.

Apart from its promoting action, copper regenerates silica gel poisoned by mineral admixtures, enhances its thermal stability and selectivity, and overcomes the diffusional retardation of the reaction. (Author)

(Chemistry--Organic, TT, v. 10, no. 11)

Office of Technical Services

TT-62-28286

Freidlin, L.Kh. and Sharf, V.Z.
ETUDE, A L'AIDE D'UN INDICATEUR, DE L'ACIDITE DU CATALYSEUR A PHOSPHATE ET DE LA FACON DONT ELLE EST MODIFIEE PAR LA TREMPE (Issledovanie Indikatornym Metodom Kislotnosti Fosfatnogo Katalizatora i ee Izmeneniya Pri Prokalivanii) (Investigation of the Acidity of a Phosphate Catalyst and its Change during Firing by an Indicator Method) 11p. (Foreign text included) 7 refs. CNRS-VIII bis 630. Order from: OTS, ETC or CNRS SO.80 TT-62-28286

Trans. in French of Akademiya Nauk SSSR, Otdeleniye Khimicheskikh Nauk, Izvestiya, 1960, no.6, p.1128-1130.

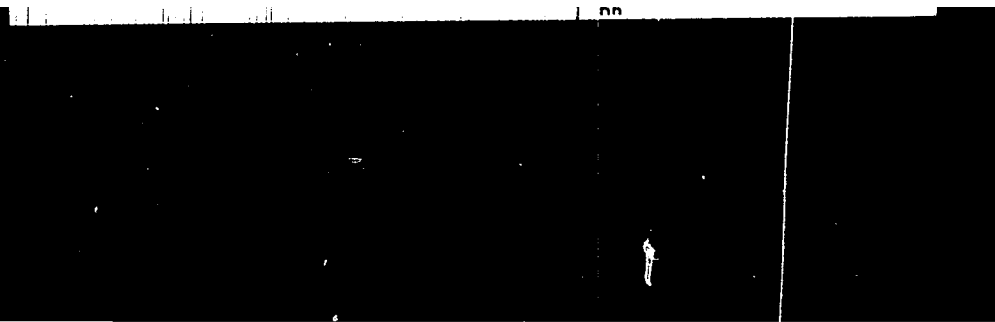
DESCRIPTORS: *Catalysts, Calcium compounds, *Phosphates, Acids, Hydrolysis.

- I. Freidlin, L.Kh.
- II. Sharf, V.Z.
- III. CNRS-VIII bis 630
- IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services

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CIA-RDP91-00772R000301900012-2

Freidlin, L. Kh., Balandin, A. A. and others.
CONVERSION OF ARYL HALIDES AND ELIMINATION
OF THE AROMATICALLY BOUND HALOGEN WITH
STEAM. [1963] 15p. 9 refs.

Order from OTS or SLA \$1.60

63-18252

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1946, no. 4, p. 439-446.

DESCRIPTORS: *Benzene derivatives, *Halides,
*Chlorides, *Elimination reactions, *Steam, *Catalysis,
*Copper catalysts, Chemical reactions.

A new course was found for the catalytic reaction of
the interaction of aryl halides with steam, which leads
to the elimination of the halogen. A scheme of the
process is proposed which allows one to explain and
predict a number of its characteristics. The influence
of various factors on the reaction was investigated.

(Author)

(Chemistry--Physical, TT, v. 10, no. 11)

63-18252

I. Title: Phenyl halides

I. Freidlin, L. Kh.

II. Balandin, A. A.

Office of Technical Services

Kinetics of the Hydrogenation of Cyclopentadiene
and Cyclopentene Over Raney Nickel, by L. Kh.
Freidlin, B. D. Polkovnikov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 6, 1959, pp 1106-1110.

CE

Sci

157, 917

Formation of Nitrogen-Containing Compounds
in the Catalytic Hydrogenation of Benzodinitrile
and Phthalonitrile, by L. Kh. Freidlin, T. A.
Sledneva, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim. Nauk,
No 10, 1959, pp 1859-1861.

Ch

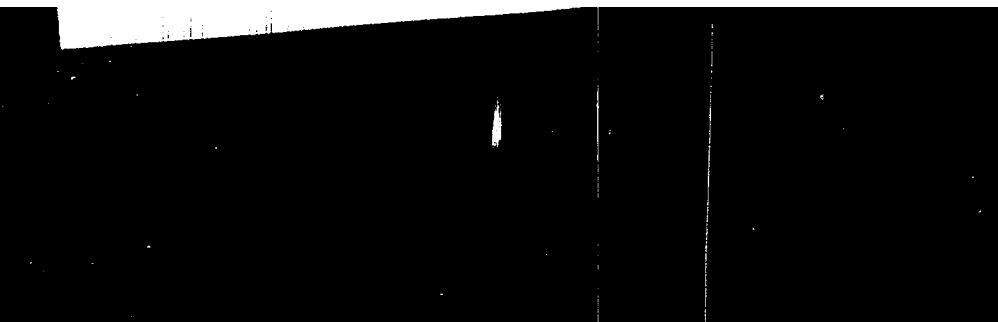
100,873

Sci

Jun 61

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APPROVED FOR RELEASE: Thursday, August 15, 2002

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61-18219

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES.
I. CATALYTIC ACTIVITY OF SILICA GELS AND
THEIR INACTIVATION. [1961] 9p. 17 refs.
Order from OTS or SLA \$1.10

61-18219

Trans. of Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1945 [no. 1]
p. 53-60

DESCRIPTORS: Benzenes, Chlorides, Hydrolysis,
Phenols, Silicon compounds, Dioxides, *Gels,
*Catalysis.

The catalytic activity of silica gels in vapor phase
hydrolysis of chlorobenzene and their inactivation was
studied. Silica gel prepared according to Okatov was
found to possess a considerable catalytic activity in
this process. The yield of phenol in its presence
(Chemistry--Organic, TT, v. 6, no. 6) (over)

- I. Freidlin, L. Kh.
- II. Balandin, A. A.
- III. Title: Catalytic...

Office of Technical Services

60, On the Selectivity of Action of Zinc Catalyst in
Hydrogenation Reactions of Mono- and Dicyclopentadiene
Hydrocarbons, by L. Kh. Freidlin, V. L. Gorshkov,
4 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol. I, No. 4,
1960, pp 593-596.

CB

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Oct 61

Catalytic Hydrogenation of Dimethylvinylethynylcarbinol,
by L. Kh. Freidlin, B. D. Polkovnikov, V. I. Gershkov,
7 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 6, 1961, pp 1120-1126

CB

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Sci
Apr 62

Froldin, L. Kh., Balandin, A. A., Fridman, G. A.,
and Lebedeva, A. E.

HYDROLYSIS OF CHLOROBENZENE WITH WATER
VAPOR IN PRESENCE OF SILICA-GEL CATALYSTS.

[1963] 15p 5refs

Order from OTS or SLA \$1.60

63-18677

Trans. of Khimicheskaya Prom[yslennost'] (USSR)
1945 [no. 12, p. 5-11].

DESCRIPTORS: *Benzenes, *Chlorides, *Hydrolysis,
Silicon compounds, Gels, Dioxides, Catalysts,
Additives.

(Chemistry--Organic, TT, v. 10, no. 10)

63-18677

1. Title: Phenyl chloride
- I. Froldin, L. Kh.
- II. Balandin, A. A.
- III. Fridman, G. A.
- IV. Lebedeva, A. E.

1252430

Office of Technical Services

Selective Hydrogenation of Butynediol into
Butenediol on a Nickel Skeleton Catalyst,
by L. Kh. Freidlin, A. A. Balandin, I. F.
Shukova, 8 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I,
No 3, 1960, pp 447-454.

CB

168,553

Sci
Sep 61

Irreversible Catalysis and the Consecutive
Character of the Hydrogenation of Unsaturated
Bonds in 1,3-Cyclohexadiene on a Skeletal Nickel
Catalyst, by L. Kh. Freidlin, D. D. Polkovnikov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1959, pp 721-726.

ATS RJ-2064

Sci - Chem

May 60

115,388

Preparation of p-Xylylenediamine by Catalytic Reduction
of Terephthalonitrile, by L. Kh. Freidlin, A. A.
Balandin, T. A. Gladkova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 5, 1957,
pp 880-.

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Sci - Chemistry
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The Kinetics and Sequence of Hydrogenation of Bonds
in Peroxide Compounds Over a Nickel Catalyst, by
A. A. Balandin, N. V. Nikiforova, L. Kh. Freidlin,
6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 4,
1957, pp 649-652.

Consultants Bureau

Sci - Chemistry
Jul 58

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Vapor-Phase Hydration of Propylene Oxide Over
Tricalcium Phosphate, by L. Kh. Freidlin, V. Z.
Sharf, 5 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1960 pp 182-187

CB

145,372

Sci
Apr 61

The Effect of Water Vapour on the Structure and
Activity of Raney-Nickel Catalyst, by V. D.
Krylov, L. Kh. Freidlin, I. F. Zhukova, 3 pp.

RUSSIAN, part, Zh. Fiz. Khim., Vol. XXXIII, No. 11,
1959, pp. 2559-2563.

Cleaver-Rand Press

Sci

Aug 60

123,650

Mechanism of the Deactivation of Nickel Catalysts
by Steam Under Pressure, by L. Kh. Freidlin,
A. A. Balandin, N. V. Borunova, A. K. Agronomov,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel. Khim Nauk,
No 8, Aug 1956, pp 913-922.

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Sci - Chemistry
Jul 57

49,403

Stagewise Character of the Hydrogenation of the
Double Bonds of Cyclopentadiene Over Raney
Nickel, by L. Kh Freidlin, B. D. Polkovnikov,
8 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1956, pp 1171-1179.

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Sci - Chemistry
Jan 58

57,989

Preparation of Hexamethylenediamine by the
Continuous Hydrogenation of Adiponitrile on a
Nickel Catalyst, by L. K. Freidlin, A. A. Balandin,
K. G. Rudneva, T. A. Sladkova, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
pp 166-173, 1957.

SIA R-1619

Sci - Chem
Aug 58

70,523

Investigation of Selectivity of Catalyst Action.
Pt. 2. Reduction of Mesityl Oxide on Copper and Zinc
Copper Catalysts, by L. Kh. Freidlin, A. S. Sultanov
M. F. Abidova, 4 pp.

RUSSIAN, per, (Ak Nauk SSSR. Otdel Khim Nauk, Invest.)
No 5, 1958, pp 640-642.

Assoc Tech Dr
79K27E

Sci - Chem
Apr 59
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Study of the Selective Action of Catalysts.
Part 1. Reduction of Mesityl Oxide and
Crotonaldehyde Over a Zinc Catalyst, by
L. Kh. Freidlin, et al.

RUSSIAN, per, - In Ak Nauk SSSR, Otdel Khim
Nauk, No 3, 1958, pp 378-380.

Assoc Tech Serv EJ-1397
" " " 1958

Sci - Chem

Apr 59

85, 284

Catalytic Alkylation of n-Heptane With Propylene
and n-Butane With Butylene at High Temperatures
and Pressures, by ¹/₂ L. Kh. Freidlin, A. S.
Balegadin, M. N. Kazarova, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol. CXX,
No 1, pp 105-108. Jul/Aug 1956

Consultants Bureau

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Doc 57

Effect of Steam and Compression Treatments on the
Macrostructure and Catalytic Activity of Alumina,
by I. E. Neimark, L. Kh. Freidlin, A. I.
Rastrenenko, N. V. Borunova, 6 pp.

RUSSIAN, no per, Iz Ak Nauk, Otdel Khim Nauk,
No 7, 1956, pp 784-789.

Consultants Bureau

Sci - Chem
May 57

47, 216

Reaction of the Dehydration of Alcohols in Presence
of Tricalcium Phosphate, by L. Kh. Freidlin,
A. M. Levit, 8 pp.

Full translation.

RUSSIAN, 10 per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, Jan-Feb 1952, pp 163-171.

Consultant Bureau

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Scientific - Chemistry

Aug 53 CTS

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Hydrogenation of 2-Ethylanthraquinone Over Raney
Nickel, by L. Kh. Freidlin, E. F. Litvin, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1960, pp 734-738.

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May 62

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The reaction of Nickel Oxide with Alumina in Steam
and the Effect of Steam on the Properties of a Nickel -
Alumina Catalyst, by L. Kh. Freidlin, N. V. Borunova,
4 pp.

RUSSIAN, per, Zhur Fiz Khim, No 11, 1961, pp 2458-2464.

Cleaver-Hume Press

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Aug 62

213,700

Activity and Selectivity of a Zinc Catalyst in the
Hydrogenation of an Acetylenic to an Ethylenic
Bond, by L. Kh. Freidlin, V. I. Gorshkov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1960, pp 739-743.

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May 62

194,449

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF A HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES. II. PRO-
MOTERS OF SILICA GEL. [1961] 8p. 10 refs.
Order from OTS or SLA \$1.10

61-18887

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1945, p. 375-383.

DESCRIPTORS: *Benzenes, *Chlorides, Chemical
reactions, *Silicon compounds, *Dioxides *Gels,
Calcium compounds, Barium compounds, Magnesium
compounds, Catalysts, Catalysts, *Halogens, *Hydrox-
ides, Substitution reactions.

Tests of the effect exerted by various salts on the
activity of silica gel in vapor phase conversion of
chlorobenzene at 450-600° revealed that these addi-
tions almost invariably reduce the catalytic activity of
silica gel. Some salts, such as lithium chloride, in-
(Chemistry--Organic, TT, v. 6, no. 11) (over)

61-18887

I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Title: Promoters...

Office of Technical Services

Catalytic Inertness of Amorphous Nickel in the Hydrogenation of Benzene and the Dehydrogenation of Cyclohexane, by A. M. Rubinshtein, L. Kh. Freidlin, N. V. Borunova, 2 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk, Otdel Khim Nauk, No 7, Jul/Aug 1955, pp 766-767. CIA C 41476

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Scientific - Chemistry
Mar 56 CTS/dex

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Stability of Skeletal Nickel Catalyst at Elevated
Temperature, by L. Kh. Freidlin, K. G. Rudneva,
1 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 6, USSR, Nov/Dec 1953, pp 1111-1115.
CIA D 151103

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Scientific - Chemistry

CTB 66/Mar 55

21,816

Effect of Compression on the Porosity, Catalytic
Properties, and Chromatographic Activity of Silica
Gel, by L. Kh. Fraidlin, L. F. Vereshchagin, I. E.
Neimark, I. U. Numanov, R. Yu. Sheinfain, 5 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, USSR, 1953, pp 945-950. *CIA 151001*

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Scientific - Chemistry

20,568

CTS 64/Jan 55

Relationship Between the Activity and Fine Crystal-
line Structure of Raney Nickel Catalyst, by
V. D. Krylov, L. Kh. Freidlin, K. O. Rudneva,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1957, pp 546-553.

Consultants Bureau

Sci - Chem

May 59

88, 099

Hydrogenation of Cyclopentadiene in Binary
Mixtures With Unsaturated Hydrocarbons Over
Palladium and Platinum Blacks, by L. Kh. Freidlin,
B. D. Polkovnikov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1957, pp 541-545.

Consultants Bureau

Sci - Chem

May 59

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Composition of the Products of Cyclohexanone
Dehydrogenation Over a Zinc Catalyst and
Conversion of the Resultant Still Residue Into
Cyclohexanone, by L. Kh. Prizidina, V. I.
Shari, Z. B. Smolyan, 4 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXII, No 4,
1959, pp 901-904.

Consultants Bureau

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